

# HYTORC

## TOOL MODEL: AVANTI 3 DUAL -REAR ARM PRESSURE/TORQUE CONVERSION CHART

### Standard Torque Chart

PRESSURE IN PSI	TORQUE IN			PRESSURE IN BAR
	FT. LBS.	KGM	NM	
1500	457	63	620	104
1600	488	68	662	110
1800	551	76	746	124
2000	613	85	831	138
2200	675	93	914	152
2400	736	102	998	165
2600	798	110	1081	179
2800	859	119	1165	193
3000	921	127	1249	207
3200	984	136	1333	220
3400	1046	145	1418	234
3600	1109	153	1503	248
3800	1171	162	1588	262
4000	1234	171	1673	276
4200	1296	179	1757	290
4400	1358	188	1841	303
4600	1420	196	1925	317
4800	1482	205	2009	331
5000	1544	214	2093	345
5200	1606	222	2177	358
5400	1668	231	2262	372
5600	1731	239	2346	386
5800	1793	248	2430	400
6000	1855	257	2515	414
6200	1918	265	2600	427
6400	1981	274	2685	441
6600	2043	283	2770	455
6800	2106	291	2855	468
7000	2169	300	2940	482
7200	2233	309	3027	496
7400	2296	318	3113	510
7600	2360	326	3199	524
7800	2423	335	3285	538
8000	2487	344	3371	552
8200	2549	352	3455	565
8400	2611	361	3539	579
8600	2672	370	3623	593
8800	2734	378	3706	607
9000	2796	387	3790	620
9200	2857	395	3873	634
9400	2918	404	3955	648
9600	2978	412	4038	662
9800	3039	420	4120	676
10000	3100	429	4202	690

# IMPORTANT SAFETY INSTRUCTIONS

**WARNING:** Your **HYTORC TORQUE MACHINE** is a power tool, and as with any power tool, certain safety precautions should be observed to avoid accidents or personal injury. The following tips will assist you.

- **READ ALL INSTRUCTIONS.**
- **KEEP WORK AREA CLEAN AND WELL LIT.**
- **CONSIDER WORK AREA ENVIRONMENT.** Electrical Pumps should never be used in an atmosphere which can be considered potentially volatile. If there is any doubt, use an air pump. Also Note: metal to metal contact can cause sparks, precautions should be taken.
- **AVOID PREMATURE TOOL STARTING.** The Pump Remote Control is for the **TOOL OPERATOR** only.
- **STAY CLEAR DURING OPERATION.** In most cases, the tool will allow “hands free” operation. If the tool must be held or steadied during operation, use alternative means of securing the tool to the application
- **GUARD AGAINST ELECTRIC SHOCK.** Ensure the pump is properly grounded and the proper voltage is being used.
- **STORE IDLE TOOLS.** When not in use, tool and accessories should be properly stored to avoid deterioration
- **USE RIGHT TOOL.** Don't force small tools or attachments to do the job of a larger tool. Don't use a tool for purposes not intended.
- **PROPER SAFETY ATTIRE.** When handling/operating hydraulic equipment use work gloves, hard hats, safety shoes and other applicable clothing.
- **USE SAFETY GLASSES.**
- **MOVING EQUIPMENT.** Do not use hydraulic hoses, uni-swivels, pump power or remote cords as means of moving the equipment.
- **MAINTAIN TOOLS WITH CARE.** For top performance, inspect tools, powerpack and accessories for visual damage frequently and always prior to use. Always follow instruction for proper tool and pump maintenance. Refer to the Operations Maintenance Section for further clarification
- **STAY ALERT.** Watch what you are doing. Use Common sense. Do not use power equipment under the influence of any mood altering substances.
- **PRIOR TO OPERATION**  
Ensure that all hydraulic connections are securely connected and there is no leakage  
Verify that the Hydraulic hoses are not kinked or otherwise damaged.  
Ensure the square drive and its retainer are fully and securely engaged.  
Be certain that all connectors, elbows, fitting and swivels are not bent, loose or damaged.
- **PRIOR TO USE.**  
Check sockets for size, quality and flaws. (Do not use if questionable)  
Cycle tool to ensure proper function.  
Locate a solid, secure reaction point.  
Be sure the reaction arm retaining clamp is fully engaged.  
Be sure the hydraulic hoses are free of the reaction point.  
Pressurize the system momentarily; if the tool tends to “ride up” or to “creep”, stop and re-adjust the reaction arm to a more solid and secure position.

**NOTE:** Remain clear of the reaction arm during operation and never put body parts between reaction arm and reaction surfaces.

- **ALWAYS USE QUALITY ACCESSORIES.** Always use top quality impact sockets in good condition which are the correct size and fully engage the nut. Hidden flaws, however, remain a possibility which could cause breakage, so stay clear of sockets during operation
- **DO NOT USE** other equipment to enhance performance (Hammer on Socket/Tool)

**NOTE:** Hytorc Pumps are designed to operate Hytorc Tools only. Damage may occur to the pump or the product that is being operated due to misuse.

## SAVE THESE INSTRUCTIONS FOR FUTURE USE!